Second Grade New Math Core Compared to the Old Math Core DRAFT 9.10.07

Common to Both	New Core Only	Old Core Only
	New Core Omy	Old Core Olly
(Based on New Language)		
Standard I: Students will acquire number sense with	 Represent the composition and 	Demonstrate multiple ways to represent
whole numbers and fractions and perform operations	decomposition of numbers in a variety of	numbers using symbolic representations.
with whole numbers.	ways.	• Identify the number that is one more, one less,
	 Identify and describe even and odd whole 	ten more, or ten less than any whole number up
Objective 1: Identify and represent the relationships	numbers.	to 100.
among numbers, quantities, and place value in whole		• Use ordinal numbers 1 st through 10 th .
numbers up to 1000.	Extensions:	
Represent whole numbers in groups of hundreds, tens, and ones using base ten models and write the numeral representing the set in standard and expanded form	Comparing numbers using symbols.	
• Identify the place and the value of a given digit in a three-digit numeral.		
 Compare and order numbers using the terms, 		
greater than, less than, or equal to, and the		
symbols, >, <, and =, using various strategies,		
including the number line.		
Objective 2: Use unit fractions to identify parts of	Extensions:	
the whole and parts of a set.	• Identify the parts as halves, thirds, or	
Divide geometric shapes into two, three, or four	fourths.	
equal parts and identify the parts as halves, third, or fourths.		
Divide sets of objects into two, three, or four parts		
of equal number of objects and identify the parts as halves, thirds, or fourths.		
• Represent the unit fraction 1/2, 1/3, and 1/4 with		
objects, pictures, words (e.g.,out of equal parts_, and symbols.		

 Objective 3: Estimate, model, illustrate, describe, and solve problems involving two- and three-digit addition and subtraction. Model addition and subtraction to two- and three-digit whole numbers (sums and minuends to 1000) in a variety of ways. Write a story problem that relates to a given addition or subtraction equation, and write a number sentence to solve a story problem that is related to the environment. Demonstrate fluency with two- and three-digit addition and subtraction problems, using efficient, accurate, and generalizable strategies that include standard algorithms and mental arithmetic, and describe why the procedures work. Use the mathematical relationship between addition and subtraction and properties of addition to model and solve problems. 	 Demonstrate quick recall of addition facts (up to 10 + 10) and related subtractions facts. Extensions: Demonstrate fluency Three-digit addition and subtraction problems. 	 Demonstrate the joining and separating of sets with eighteen or fewer objects and record the results with pictures or symbols. Use a variety of methods and tools to facilitate computation. Add three whole numbers with sums to eighteen.
	 Objective 4: Model, illustrate, and pictorially record solutions to simple multiplication and division problems. Represent multiplication with equal groups using concrete objects and skip counting by twos, fives, and tens. Represent division as fair shares using concrete objects or pictures. 	
Standard II: Students will model, represent, and interpret patterns and number relationships to create and solve problems with addition and subtraction. Objective 1: Recognize, describe, create, and extend growing patterns. • Construct models and skip count by twos, threes, and tens and relate to repeated addition.	Determine the next term in linear patterns (e.g., 2, 4, 6; the number of hands on one person, two people, three people).	 Sort, classify, and label objects by three or more attributes. Identify and label repeating patterns using objects, pictures, and symbolic notation. Identify repeating and growing patterns in the environment.
 Objective 2: Model, represent, and interpret number relationships using mathematical symbols. Recognize that ≠ indicates a relationship in which the two sides of the inequality are expressions of different numbers. Recognize that symbols such as x, △, or ⋄ in an addition or subtraction equation represent a number that will make the statement true. Use the commutative and associative properties of addition to simplify calculations. 		

Standard III: Students will understand simple geometry and measurement concepts as well as collect, represent, and draw conclusions from data. Objective 1: Describe, classify, and create geometric figures. • Describe (and classify) plane and solid geometric figures (i.e., circle, triangle, rectangle, square, trapezoid, rhombus, parallelogram, pentagon, hexagon, cube, sphere, cone).	 trapezoid, rhombus, pentagon, hexagon, cube Classify plane and solid geometric figures according to the number of sides and angles or faces, edges, and vertices. Compose and decompose shapes and figures by substituting arrangements of smaller shapes for larger shapes or substituting larger shapes for arrangements of smaller shapes. Compose and decompose shapes and figures and describe the part-whole relationships, similarities, and differences. 	 Identify, name, draw, sortcylinder Find and identify familiar geometric shapes in the students' environment. Determine whether a circle, triangle, square, or rectangle has a line of symmetry. Create and use verbal or written instructions to move within the environment. Find and name locations using coordinates. Identify shapes in various orientations.
 Objective 2: Identify and use units of measure, iterate (repeat) that unit, and compare the number of iterations to the item being measured. Identify and use measurement units to measure, to the nearest unit, length (i.e., inch, centimeter), weight in pounds, and capacity in cups. Estimate and measure length by iterating a nonstandard or standard unit of measure. Determine the value of a set of up to five coins that total \$1.00 or less (e.g., three dimes, one nickel, and one penny equals 36¢). Tell time to the quarter-hour and sequence a series of daily events by time (e.g., breakfast at 7:00 a.m., school begins at 9:00 a.m., school ends at 3:00 p.m.). 	 centimeter Use different units to measure the length of the same object and recognize that the smaller the unit, the more iterations needed to cover a given length. Extensions: Tell time to the quarter-hour. 	 Identify the name and value of a penny, nickel, dime, quarter, and dollar. Compare and order objects, using nonstandard units, according to their length, weight, or capacity. Measure length using feet. Use a calendar to determine the day of the week and date. Determine the perimeter of a square, triangle, and rectangle by measuring with nonstandard units.
 Objective 3: Collect, record, organize, display, and interpret numerical data. Collect and record data systematically, using a strategy for keeping track of what has been counted. Organize, display, and label information, including keys, using pictographs, tallies, bar graphs, and organized tables. Describe data represented on charts and graphs and answer simple questions related to data representations. 	Organize and represent the same data in more than one way.	 Determine the likelihood of an event. Predict events that will be the same in one day or one week. Predict the outcome when there are only two possible outcomes.